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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

PTO/SB/08A (10-96)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				COMPLETE IF KNOWN		
				Application Number	10/691,341	
				Filing Date	October 21, 2003	
				First Named Inventor	Michael J. Renn	
				Group Art Unit	2874 2823	
				Examiner Name	Brian Healy	
Sheet	1	of	2	Attorney Docket Number		ODC-2003-2-NPA

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document Kind Code ² Number (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BWA		5,648,127		M.C. Turchan, et al.	07/15/1997	427 596

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ⁶
Examiner Signature					Date Considered			

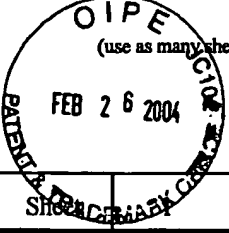
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				First Named Inventor	Michael J. Renn
				Group Art Unit	2874 2883
				Examiner Name	UNKNOWN Healy
Sheet 1 of 8		Attorney Docket Number		ODC-2003-2-NPA	
U.S. PATENT DOCUMENTS					
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BWT		3,590,477	G. Cheroft, et al.	07/06/1971	29 571
BWT		3,715,785	A. V. Brown, et al.	02/13/1973	29 25.11
BWT		3,808,432	A. Ashkin	04/30/1974	29 25.11
BWT		3,808,550	A. Ashkin	04/30/1974	331 94.5
BWT		3,846,661	A. V. Brown, et al.	11/05/1974	313 791
BWT		3,901,798	C.M. Peterson	08/26/1975	209 143
BWT		3,959,798	F. Hochberg, et al.	05/25/1976	346 74.1
BWT		3,974,769	F. Hochberg, et al.	08/17/1976	101 1
BWT		3,982,251	F. Hochberg	09/21/1976	346 1
BWT		4,016,417	R.G. Benton	04/05/1977	250 251
BWT		4,019,188	F. Hochberg, et al.	04/19/1977	346 75
BWT		4,046,073	J. L. Mitchell, et al.	09/06/1977	101 426
BWT		4,046,074	F. Hochberg, et al.	09/06/1977	101 426
BWT		4,112,437	J. M. Mir, et al.	09/05/1978	346 159
BWT		4,200,669	R.J. Schaefer, et al.	04/29/1980	427 53.1
Examiner Signature	Healy		Date Considered	9/8/04	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) 				Application Number	10/691-341		
				Filing Date	October 21, 2003		
				First Named Inventor	Michael J. Renn		
				Group Art Unit	2874-2883		
				Examiner Name	UNKNOWN Healy		
Sheet		of	8	Attorney Docket Number	ODC2003-2-NPA		
U.S. PATENT DOCUMENTS						CLASS	SUBCLASS
Examiner Initials	Cite No. ¹	U.S. Patent Document Kind Code ² Number (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
BWH		4,228,440	M. Horike, et al.	10/14/1980	346	75	
BWH		4,269,868	N.B. Livsey	05/26/1981	427	531	
BWH		4,323,756	C.O. Brown, et al.	04/06/1982	219	121LP	
BWH		4,453,803	T. Hidaka, et al.	06/12/1984	385	123X	
BWH		4,497,692	M.H. Gelchinski, et al.	02/05/1985	204	15	
BWH		4,670,135	V.A. Marple, et al.	06/02/1987	509	143	
BWH		4,825,299	Y. Okada, et al.	04/25/1989	358	323	
BWH		4,826,583	A. Biernaux, et al.	05/02/1989	204	224B	
BWH		4,947,463	J. Matsuda, et al.	08/07/1990	219	12185	
BWH		5,032,850	G.B. Andeen, et al.	07/16/1991	346	1.1	
BWH		5,043,548	E.J. Whitney, et al.	08/27/1991	—	—	
BWH		5,164,535	J.D. Leasure	11/17/1992	—	—	
BWH		5,170,890	S.D. Wilson, et al.	12/15/1992	346	75X	
BWH		5,182,430	G.L. Lagain	01/26/1993	219	163.1	
BWH		5,194,297	B.W. Scheer, et al.	03/16/1993	427	180	
Examiner Signature	B. Healy			Date Considered	9/8/04		

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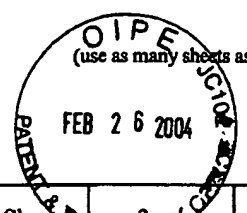
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				First Named Inventor	Michael J. Renn		
				Group Art Unit	2874 2883		
				Examiner Name	UNKNOWN/Healy		
Sheet 3 of 8	Attorney Docket Number		ODC-2003-2-NPA				
U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	U.S. Patent Document Kind Code ² Number (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	CLASS	SUB CLASS
BWt		5,208,431	F. Uchiyama, et al.	05/04/1993	219	121.68	
BWt		5,254,832	G. Gartner, et al.	10/19/1993	219	121.66	
BWt		5,292,418	T. Morita, et al.	03/08/1994	219	121.68	
BWt		5,335,000	W.R. Stevens	08/02/1994	347	82	
BWt		5,366,559	R. Periasamy	11/22/1994	347	82	
BWt		5,378,505	T. Kubota, et al.	01/03/1995	427	484	
BWt		5,378,508	A.J. Castro, et al.	01/03/1995	427	556	
BWt		5,403,617	P.D. Haaland	04/04/1995	427	180	
BWt		5,449,536	M.E. Funkhouser, et al.	09/12/1995	427	597	
BWt		5,486,676	S. Aleshin	01/23/1996	427	512	
BWt		5,495,105	M. Nishimura, et al.	02/27/1996	250	251	
BWt		5,607,730	R.J. Ranalli	03/04/1997	427	512	
BWt		5,612,099	S.L. Thaler	03/18/1997	427	565	
BWt		5,733,609	L. Wang, et al.	03/31/1998	427	561	
BWt		5,736,195	P.D. Haaland	04/07/1998	427	180	
BWt		5,772,106	S.D. Ayers, et al.	06/30/1998	228	254	
Examiner Signature	B. Healy			Date Considered	9/8/04		

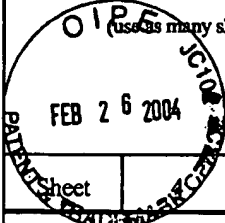
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				Application Number	10/691,341		
				Filing Date	October 21, 2003		
				First Named Inventor	Michael J. Renn		
				Group Art Unit	2874		
				Examiner Name	UNKNOWN <i>Healy</i>		
Sheet		of	8	Attorney Docket Number	ODC-2003-2-NPA		
U.S. PATENT DOCUMENTS						CLASS	SUB CLASS
Examiner Initials	Cite No. ¹	U.S. Patent Document Kind Code ² Number (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
<i>Burt</i>		5,814,152	S.L. Thaler	09/29/1998	<i>118</i>	<i>641</i>	
<i>Burt</i>		5,854,311	D.S. Richart	12/29/1998	<i>523</i>	<i>309</i>	
<i>Burt</i>		5,940,099	H. Karlinski	08/17/1999	<i>347</i>	<i>70</i>	
<i>Burt</i>		5,993,549	H. Kindler, et al.	11/30/199	<i>118</i>	<i>308</i>	
<i>Burt</i>		6,015,083	D.J. Hayes, et al.	01/18/2000	<i>228</i>	<i>554</i>	
<i>Burt</i>		6,110,144	R.T. Choh, et al.	08/29/2000	<i>604</i>	<i>99.01</i>	
<i>BMA</i>		6,116,718	E. Peeters, et al.	09/12/2000	<i>347</i>	<i>21</i>	
<i>Burt</i>		6,136,442	K.H. Wong	10/24/2000	<i>428</i>	<i>412</i>	
<i>BMA</i>		6,151,435	H.S. Pilloff	11/21/2000	<i>385</i>	<i>125</i>	
<i>Burt</i>		6,182,688	C. Fabre	02/06/2001	<i>137</i>	<i>503</i>	
<i>Burt</i>		6,251,488	W.D. Miller, et al.	06/26/2001	<i>427</i>	<i>596</i>	
<i>Burt</i>		6,258,733	N. Solayappan, et al.	07/10/2001	<i>438</i>	<i>785</i>	
<i>Burt</i>		6,265,050	K.H. Wong, et al.	07/24/2001	<i>428</i>	<i>209</i>	
<i>Burt</i>		6,290,342	T.A. Vo, et al.	09/18/2001	<i>347</i>	<i>85</i>	
<i>BMA</i>		6,291,088	K.H. Wong, et al.	09/18/2001	<i>428</i>	<i>698</i>	
<i>BMA</i>		6,293,659	P.D. Floyd, et al.	09/25/2001	<i>347</i>	<i>85</i>	
Examiner Signature	<i>B. Healy</i>			Date Considered	<i>9/8/04</i>		

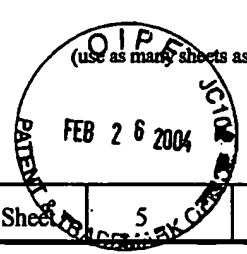
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				First Named Inventor	Michael J. Renn			
				Group Art Unit	2874 2883			
				Examiner Name	UNKNOWN Healy			
Sheet 5 of 8	Attorney Docket Number		ODC2003-2-NPA					
U.S. PATENT DOCUMENTS						CLASS	5 th CLASS	
Examiner Initials	Cite No. ¹	U.S. Patent Document Kind Code ² Number (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
BMT		6,340,216		E. Peeters, et al.	01/22/2002	347	21	
BMT		6,406,137		T. Okazaki, et al.	06/18/2002	347	93	
BMT		6,416,156		J. Noolandi, et al.	07/09/2002	347	21	
BMT		6,416,157		E. Peeters, et al.	07/09/2002	347	21	
BMT		6,416,158		P.D. Floyd, et al.	07/09/2002	347	21	
BMT		6,416,159		P.D. Floyd, et al.	07/09/2002	347	21	
BMT		6,454,384		E. Peeters, et al.	09/24/2002	347	21	
BMT		6,467,862		E. Peeters, et al.	10/22/2002	347	7	
BMT		6,481,074		H. Karlinski	11/19/2002	29	25.35	
BMT		6,636,676		M.J. Renn	10/21/03	385	115	
FOREIGN PATENT DOCUMENTS								
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BMT		EP	0 331 022 A2		Texas Instruments Incorporated	09/06/1989	385	147X
Examiner Signature	B. Healy				Date Considered	9/8/04		

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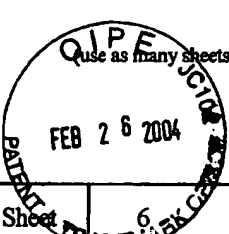
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				First Named Inventor	Michael J. Renn
				Group Art Unit	2874
				Examiner Name	UNKNOWN <i>Healy</i>
Sheet 6 of 8	Attorney Docket Number		ODC-2003-2-NPA		

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<i>BML</i>		EP	0 444 550 A2		Fried, Krupp Gesellschaft mit Beschränkter Haftung	09/04/1991	<i>385</i> <i>147x</i>	
Examiner Signature	<i>B. Healy</i>				Date Considered	<i>9/8/04</i>		

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		Filing Date	October 21, 2003
		First Named Inventor	Michael J. Renn
		Group Art Unit	2874-2883
		Examiner Name	UNKNOWN Healy
Sheet 7 of 8	8	Attorney Docket Number	ODC2003-2-NPA

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
BWH		ASHKIN, A., "Acceleration and Trapping of Particles by Radiation Pressure", <i>Physical Review Letters</i> , January 26, 1970, pp. 156-159, Vol. 24, No. 4, The American Physical Society	
BWH		ASHKIN, A., et al., "Optical trapping and manipulation of single cells using infrared laser beams", <i>Nature</i> , 24/31 December, 1987, pp. 769-771, Vol. 330, London, Great Britain	
BWH		LEWANDOWSKI, H.J., et al., "Laser Guiding of Microscopic Particles in Hollow Optical Fibers", <i>Announcer 27</i> , Summer Meeting - Invited and Contributed Abstracts, July 1997, pg. 89	
BWH		MARPLE, V.A., et al., "Inertial, Gravitational, Centrifugal, and Thermal Collection Techniques", <i>Aerosol Measurement: Principles, Techniques and Applications</i> , 2001, pp. 229-260, Wiley-Interscience, New York, N.Y.	
BWH		ODDE, D.J., et al., "Laser-Based Guidance of Cells Through Hollow Optical Fibers", <i>The American Society for Cell Biology Thirty-Seventh Annual Meeting</i> , 12/17/1997	
BWH		ODDE, D.J., et al., "Laser-guided direct writing for applications in biotechnology", <i>Trends in Biotechnology</i> , October, 1999, pp. 385-389, Vol. 17, Elsevier Trend Journals, Cambridge, U.K.	
BWH		RENN, M.J., et al., "Evanescent-wave guiding of atoms in hollow optical fibers", <i>Physical Review A</i> , February, 1996, pp. R648-R651, Vol. 53, No. 2, The American Physical Society	
BWH		RENN, M.J., et al., "Laser-Guided Atoms in Hollow-Core Optical Fibers", <i>Physical Review Letters</i> , October 30, 1995, pp. 3253-3256, Vol. 75, No. 18, The American Physical Society	
BWH		RENN, M.J., et al., "Laser Guidance and Trapping of Mesoscale Particles in Hollow-Core Optical Fibers", <i>Physical Review Letters</i> , February 15, 1999, pp. 1574-1577, Vol. 82, No. 7, The American Physical Society	
Examiner Signature	B. Healy		Date Considered
		9/8/04	

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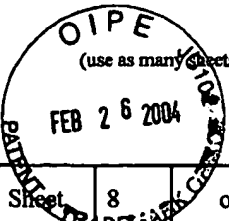
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		Filing Date	October 21, 2003
		First Named Inventor	Michael J. Renn
		Group Art Unit	2874 2883
		Examiner Name	UNKNOWN Healy
Sheet 8 of 8	Attorney Docket Number	ODC2003-2-NPA	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
GA		RENN, M.J., et al., "Optical-dipole-force fiber guiding and heating of atoms", <i>Physical Review A</i> , May, 1997, pp. 3684-3696, Vol. 55, No. 5, The American Physical Society	
GA		RENN, M.J., et al., "Particle manipulation and surface patterning by laser guidance", <i>Journal of Vacuum Science & Technology B</i> , Nov/Dec 1998, pp. 3859-3863, Vol. 16, No. 6, American Vacuum Society	
GA		RENN, M.J., et al., "Particle Manipulation and Surface Patterning by Laser Guidance", submitted to EIPBN '98, Session AM4	
GA		TSI Incorporated, "How A Virtual Impactor Works", www.tsi.com	
GA		Vanheusden, K., et al., "Direct Printing of Interconnect Materials for Organic Electronics", <i>IMAPS ATW, Printing an Intelligent Future</i> , March 8-10, 2002, pp. 1-5, Lake Tahoe	

Examiner Signature	<i>S. Healy</i>	Date Considered	9/8/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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¹ Unique citation designation number. 2. Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				COMPLETE IF KNOWN	
				Application Number	10/691,341
				Filing Date	October 21, 2003
				First Named Inventor	Michael J. Renn
				Group Art Unit	2874
				Examiner Name	Brian Healy
Sheet	2	of	2	Attorney Docket Number	ODC-2003-2-NPA

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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BWH		Sobeck, et al., <i>Technical Digest: 1994 Solid-State Sensor and Actuator Workshop</i> , 1994, p. 647	

Examiner Signature	B. Healy	Date Considered	9/8/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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